

Figure 1

Figure 1 consists of two panels, A and B, showing histograms of the number of non-zero elements in the sparse matrices \tilde{A} and \tilde{B} , respectively.

Panel A shows the distribution for \tilde{A} . The x-axis is labeled "Number of non-zero elements" and ranges from 0 to 100. The y-axis is labeled "Frequency" and ranges from 0 to 10. The histogram shows a peak at 0 non-zero elements with a frequency of approximately 9, and a smaller peak at 1 non-zero element with a frequency of approximately 6. There are very few non-zero elements beyond 1.

Panel B shows the distribution for \tilde{B} . The x-axis is labeled "Number of non-zero elements" and ranges from 0 to 100. The y-axis is labeled "Frequency" and ranges from 0 to 10. The histogram shows a peak at 0 non-zero elements with a frequency of approximately 8, and a smaller peak at 1 non-zero element with a frequency of approximately 5. There are very few non-zero elements beyond 1.

Vibol Tan

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